

## **METHOD AND SYSTEM FOR CALCULATING RISK IN ASSOCIATION WITH A SECURITY AUDIT OF A COMPUTER NETWORK**

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### **Abstract of the Disclosure**

Calculating risk based on information collected during a security audit of a computing network. The computer network is surveyed to determine the significance of elements in the network and to identify vulnerabilities associated with the elements. Using this information, the security audit system calculates a risk value for each vulnerability. The risk value is a function of the asset value, the probability that the vulnerability will be exploited, and the potential severity of damage to the network if the vulnerability is exploited. The risk value can be adjusted based on the ease with which the vulnerability can be fixed. A network element may have one or more risk values associated with it based on one or more vulnerabilities. The security audit system employs a band calculation method for summing risk values and computing a single security score for the element. The band calculation method can also be used to produce a security score for a group of elements. The band calculation method produces a more accurate score for comparing elements and groups of elements throughout a network.

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